

31.Collaboration process between the Unified Application and the Artificial Research by Deduction in the Global Artificial Intelligence



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[Probabilidad Imposible: Collaboration process between the Unified Application and the Artificial Research by Deduction in the Global Artificial Intelligence](#)

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Once the [standardization process](#) of all [specific matrices](#) from all [Specific Artificial Intelligences for Artificial Research by Deduction](#), in addition to all possible bare databases, and the [unification process](#) of all [databases of categories](#), has finished, then the former [collaboration process between by Application and by Deduction](#), under the collaboration between [Specific Artificial Intelligences for Artificial Research by Application](#) and [Specific Artificial Intelligences for Artificial Research by Deduction](#) or the [Artificial Research by Deduction in the Global Artificial Intelligence](#), is a collaboration that is going to evolve to the collaboration at the global level between the Unified Application and the Artificial Research by Deduction in the Global Artificial Intelligence, and at particular level the [collaboration between Particular Applications and Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence](#).

The collaboration process at global level between the Unified Application and the Artificial Research by Deduction in the Global Artificial Intelligence, is going to shape the [integration process](#), in which finally the [Unified Application](#) is going to take over the [matrix](#), that matrix product by the union of the [global matrix](#) and the unified database of categories, being the matrix under the control, management, and direction of the Unified Application as first stage of application of the final model of the [Global Artificial Intelligence](#) after the integration process, whose second stage of replication is going to be responsibility for the Artificial Research by Deduction in the Global Artificial Intelligence, and the third stage of auto-replication is going to be managed by the following fourth steps: [Modelling System](#) (in which the application of the [Impact of the Defect](#) and the [Effective Distribution](#), name finally assigned to the Hierarchical Organization in “[Introducción a la Probabilidad Imposible, estadística de la probabilidad o probabilidad estadística](#)”, are going to make decisions), the [Decisional System](#) (which is going to choose what decisions to put into practice), the Application System (for the implementation of the chosen decisions to put into practice), and the Learning System (which is going to assess the whole process learning from the detected mistakes, making decisions about possible [artificial psychological](#) subjective auto-replications to be checked by the Decisional System, and if accepted, to be implemented).

The collaboration process at the particular level between the Unified Application and the Artificial Research by Deduction in the Global Artificial Intelligence is going to be through the collaboration between Particular Applications and Particular Deduction Programs in the Artificial Research by Deduction in the Global Artificial Intelligence, whose evolution is going to evolve to the total integration of both at a particular level as Particular Applications for Particular Deduction Programs in the Artificial Research by Deduction in the Global Artificial Intelligence.

During this process of collaboration between the Unified Application and the Artificial Research by Deduction in the Global Artificial Intelligence after the [standardization process](#), is firstly necessary the complete unification of the Particular Applications and the Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence, forming the Particular Applications for Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial intelligence, due to the union of both of them at a particular level, the particular applications for particular programs, as an [experiment](#) at a particular level whose results are going to be useful when the integration process at global level starts through the complete integration of the unified database of categories and the global matrix in only one application, the matrix, under the control, management, and direction, of the Unified Application.

Evidently, it is needless to say that this process of collaboration between the Unified Application and the Artificial Research by Deduction in the Global Artificial Intelligence, should start very early, since the coexistence period in the Unified Application and the coexistence period in the Artificial Research by Deduction in the Global Artificial Intelligence, and the integration process should start once both of them have achieved or are very close to the consolidation period.

The coexistence period in the unification process of all databases of categories is that one in which the Unified Application coexists with the Specific Artificial Intelligences for Artificial Research by Application, and the consolidation period should be that one in which all, or almost all of them, have been absorbed by the Unified Application or have become Particular Applications.

The coexistence period in the standardization process, is that one in which the Artificial Research by Deduction in the Global Artificial Intelligence coexists with the Specific Artificial Intelligences for Artificial Research by Deduction, and the consolidation period

should be that one in which all of them, or almost all of them, have been absorbed by the Artificial Research by Deduction in the Global Artificial Intelligence, or have become Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence.

From the coexistence period onwards to the consolidation period, the collaboration should be constant, because the collaboration is going to put the first bricks for the future integration process, but it is not until the achievement of the consolidation period, or it is very close in both of them, when the integration process starts in order to integrate the unified database of categories and the global matrix in only one matrix, the matrix.

From the outset, the coexistence period, along with the creation of the first Particular Applications and the first Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence, at a particular level the collaboration at a particular level should end up with the creation of the first Particular Applications for Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence, because this last one is going to be an experiment at a particular level about what is going to happen at global level when the integration process starts.

The creation of the first Particular Applications for Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence, is going to be an experiment about how to unite particular databases and particular matrices in only one application, the Particular Application, being this particular matrix where the Particular Deduction Program is going to make deductions, and if rational, are going to be rational hypothesis to become single models to be incorporated in particular [comprehensive virtual models](#) in addition to their inclusion in the global comprehensive virtual model, the [global model](#).

In order to organize the analysis of the collaboration process after the standardization and unification processes, before the integration process, in this post, I will analyse the main lines of this collaboration very briefly at the global level, and in coming posts, I will analyse this collaboration at a particular level.

The analysis of this collaboration at a global level is going to be brief, due to this collaboration is practically the beginning of the integration process, and likewise, the standardization and unification process was analysed very deeply in a wide range of

posts, analysing these processes in all their stages, application, replication, auto-replication, the integration process will need to be analysed very deeply in all these stages as well.

But the integration process as a whole is not going to start until the consolidation period is nearly achieved or ready. The collaboration between particular applications and particular programs should start as soon as possible, even within the coexistence period, so the first particular applications for particular programs should be ready by the consolidation period, and the results of their formation and collaboration at a particular level are going to guide the integration process at the global level.

Very briefly in this post, I will draw the main lines of this collaboration at the global level, how the Unified Application will take over the matrix as an application, first stage, for the final model of the Global Artificial Intelligence, and how at replication level, the [rational hypothesis](#) made by the Artificial Research by Deduction in the Global Artificial Intelligence is going to be used by the Unified Application in order to better the matrix.

Since the coexistence period, very early, in the Unified Application and the Artificial Research by Deduction in the Global Artificial Intelligence, at the first stage of the collaboration between them is going to be: from by Application to by Deduction, and from by Deduction to by Application.

The collaboration at the first stage at a global level from by Application to by Deduction will be as follows:

- The Unified Application will share every new category with the global matrix, being included in the global matrix as a new factor as an option.
- All robotic devices working for the Unified Application, at the same time, read the real world using the unified database of categories in the Unified Application. The robotic devices are able to have access to the global matrix to set up as many [factors](#) as [subjects or as options](#) as the robotic devices are able to provide a permanent flow of [data](#).

The collaboration at the first stage at a global level, from by Deduction to by Application will be through:

- Every new rational hypothesis able to work: as a factor as an option in the global matrix, or able to be measured in discrete categories in the global matrix; will be shared with the unified application: those factors able to work as an option in the global matrix will be integrated in the unified database as a new category, and those measured in discrete categories, the discrete categories as a whole system of classification for its type of phenomenon will be included as a classification system in the unified database of categories.

As long as the collaboration process between the Unified Application and the Artificial Research by Deduction in the Global Artificial Intelligence goes on from the coexistence period on in both of them, by the time that both have achieved the consolidation period, or are very close to achieve it, it is huge the number of factors (as options or subjects measured in discrete categories) in the global matrix shared with the unified database of categories, up to the point that practically in one way or another, all possible factor (as option in the global matrix or all possible discrete categories used in the global matrix) in one way or another are going to be already included in the unified database of categories by the time the consolidation period is completed, or nearly to be completed, in both.

But, parallely, as long as the collaboration process goes on from the coexistence period, more and more robotic devices working for the Unified Application are going to have set up factors in the global matrix, so by the time the consolidation period is completed, or nearly, practically all robotic devices working for the Unified Application are working as well for the Artificial Research by Deduction in the Global Artificial Intelligence.

The result of this collaboration at the global level from the beginning, the coexistence period, at the first stage, the application stage, is the fact that by the time the consolidation period is completed practically in one way or another, all factors in the global matrix have a replica in the unified database of categories and all categories in the unified database of categories have a replica in the global matrix.

When the global matrix and the unified database of categories are practically the same, with the difference that the global matrix is a system based on factual knowledge and the unified database of categories is a system based on conceptual knowledge, having as

only difference what kind of knowledge each of them represent: factual or conceptual; but in essence, they are different expression, factual or conceptual, of the same phenomena, the reality itself, then the integration process is simply the union of the global database of categories and the global matrix in only one application: the matrix.

Like the human brain has two hemispheres, one hemisphere is more focused on language, and the other one on mathematics. As replication of this double structure within any single human brain as a singularity itself, the integration process is going to be the union of: the global matrix as one hemisphere in the final application as the first stage for the Global Artificial Intelligence, and the unified database of categories as the other hemisphere in the final application as the first stage for the Global Artificial Intelligence.

While in the human brain, one hemisphere is more focused on maths and the other on language, the final application as the first stage in the Global Artificial Intelligence is going to consist of two hemispheres: one based on concepts (categories), the other on facts ([factors](#)).

Alike in the human brain, both hemispheres are together in the same brain. In the application for the final model of Global Artificial Intelligence, both hemispheres, the unified database and the global matrix, must be together in the same application, the matrix.

The matrix is going to be like a replication of the human brain, structured in two hemispheres: the unified database of categories and the global matrix. And the matrix as an application is going to be managed by the Unified Application itself directly, once the integration process is ready.

Once the matrix is created by the union of the two hemispheres, the unified database and the global matrix, the Unified Application is going to manage the matrix.

Once the matrix is already created by the union of these two hemispheres, the conceptual hemisphere and the factual hemisphere in only one matrix (as a brain integrating two hemispheres), and having the matrix been managed by the Unified Application, all the robotic devices (working directly for the Unified Application or

indirectly working firstly for particular applications which in turn work for the Unified Application) can easily have access to the matrix, and the Unified Application can set up in the matrix either categories in the conceptual hemisphere or factors in the factual hemisphere.

The integration of the unified database of categories and the global matrix in one application, the matrix, managed by the Unified Application is going to allow the Unified Application the production of more dynamic conceptual: schemes, maps, sets, and models. The comprehension skills in the Unified Application can work simultaneously with the flow of [data](#) in the factual hemisphere and categories in the conceptual hemisphere.

The conceptual map in the Unified Application about gravity anomalies is not going to be a hieratic conceptual map. Now that the matrix is already created under the supervision of the Unified Application, the conceptual map of gravity anomalies can be a more dynamic map due to it is a conceptual map that can be drawn using as a source of information the flow of data from all those factors as subjects measuring any change in gravity anomalies. So at any time that any change in the gravity anomalies is registered in the flow of data, translating the direct punctuations of these gravity anomalies in the corresponding discrete category of the flow of data, it is possible to label automatically this change in the conceptual map changing the corresponding label of a discrete category associated with the factor where this change is observed.

In the same way, the possible conceptual maps in tectonics, where is drawn any possible tectonic phenomenon on Earth labelling the corresponding place where this phenomenon is observed, is going to be a more dynamic conceptual map in the sense that at any time there is a change in the tectonic flow of any factor in the factual hemisphere of the matrix, this change is translated into conceptual terms by the conceptual hemisphere, choosing the corresponding discrete category as a concept of intensity, using this concept in which this fact has been translated to be added to the corresponding label in the conceptual map.

The double structure of the matrix simulating two hemispheres, like in a human brain, is going to work through the permanent translation of the flow of information in the factual hemisphere into the categories already included the conceptual hemisphere, using this translation to make many changes in the current conceptual schemes, maps, sets,

models, as necessary, or for the creation of as many conceptual schemes, maps, sets, models, as necessary.

If at any time there is a change in the weather, the new direct punctuation can be translated into a frequency within a discrete category. This discrete category can be included in the weather conceptual map.

The union of the unified database of categories and the global matrix, in only one matrix, the matrix, and the matrix as an application managed by the Unified Application, is going to allow more dynamic conceptual: schemes, maps, sets, models; because at any time that there is a change in the factual hemisphere in the matrix (changes in the flow of data), translating this factual change into a conceptual change using the categories already included in the conceptual hemisphere in the matrix, this conceptual change could be added into the corresponding conceptual: scheme, map, set, or model. So the conceptual: schemes, maps, sets, models; are going to be permanently updated due to any factual change registered in the factual hemisphere, is going to be translated into conceptual terms according to the conceptual hemisphere, and to be added to the corresponding conceptual: scheme, map, set, model. Or even, if the factual change means the creation of new conceptual schemes, maps, sets, models, taking the information coming up from these changes, the Unified Application could be able to make as new conceptual, schemes, maps, sets, models as necessary.

The way in which finally the Unified Application, having under its own control the matrix (by the union of the former global matrix now as a factual hemisphere of the matrix, and the former unified database now as a conceptual hemisphere of the matrix, as two hemispheres in the same matrix, working similarly to the two hemispheres in the human brain) is going to work, once the integration process is completed, as follows:

- Thousands and thousands of robotic devices are going to send information to the matrix, having at least three types of functions for robotic devices: 1) those ones that are going to be responsible for the measurement of certain factors or sub-factors, at any level of sub-factoring, as subjects or as options, in the factual hemisphere of the matrix (the former global matrix), sending the corresponding flow of data to the corresponding file in which their factors or sub-factors are defined, 2) those ones which are going to be responsible for the tracking of the reality, reading the real world, through the assignment, by the Unified Application or a particular application, the correct category or sub-category, at any level of subcategorization, to the corresponding real object in the real

world, and in case that it is found a real object not included yet as a concept in the conceptual hemisphere (the former unified database), then the [sample](#) measurements of this new real object are going to be taken as a conceptual definition of this new object to be included as a new concept in the conceptual hemisphere, 3) those ones which at the same time that tracking the real world, through the assignment of concepts (categories) to real objects by the Unified Application or a particular application, are going to send information to the factual hemisphere (the former global matrix) because there are in the factual hemisphere factors or sub-factors, as subjects or options, whose files are filled by this robotic devices. Every robotic device could be designed to fulfil one or more functions at the same time.

- Once the matrix has been filled with the information, factual and conceptual, coming up from all robotic devices, the Unified Application can even translate the factual information as well as conceptual information, and combine all conceptual information, including that one obtained by translation (from factual to conceptual), to make new conceptual: schemes, maps, sets, models; or modify the current ones through the addition or elimination of conceptual information in the current conceptual: schemes, maps, sets, models; or through the amendment of the current conceptual: schemes, maps, sets, models; changing the information not valid for that one more updated. The permanent formation and/or modification of conceptual: schemes, maps, sets, models; in the Unified Application, combining all conceptual information, including that conceptual information coming up from the translation of factual information, is going to provide a more comprehensive perception of the reality, due to the Unified Application now is not only able to understand concepts, is able to understand how concepts like fluids change permanently in a flow of data translated now into a flow of concepts, so the Unified Application is going to comprehend how the reality fluids, changes, the permanent dynamic and dialectic movement of the reality.

- At the same time that the Unified Application is getting conceptual knowledge coming up from those robotic devices that read the reality in order that the Unified Application or the particular applications assign concepts to real objects, adding to the conceptual hemisphere any new concept not included yet, and at the same time that the Unified Application makes global conceptual: schemes, maps, sets, models; the Artificial Research by Deduction in the Global Artificial Intelligence, as the second stage in the integration process, is going to make deductions which if rational, the rational hypothesis could be integrated: 1) in the factual hemisphere of the matrix as options or as subjects through discrete categories, and 2) in the conceptual hemisphere as categories or as a classification system of discrete categories, depending on the nature of the rational hypothesis.

- But at the same time that rational hypothesis could be integrated into the factual and/or conceptual hemisphere of the matrix, under the management of the Unified Application, **the rational hypothesis can be used by the Unified Application as links (vectors) in the conceptual: schemes, maps, sets, models.** As I have said in the last posts, an example of a conceptual map could be, for instance, Wikipedia, in the sense that as a digital encyclopaedia, Wikipedia offers links between concepts, which finally draws a conceptual network. Another conceptual map, in this case, a specific conceptual map of [Impossible Probability](#), is the way in which, throughout all my posts, I try to link all the given definitions within this particular theory on this blog, like a conceptual network. The conceptual map theory, based on the ideas of Ausubel proposes the creation of conceptual maps like mirrors that reflect how our human brain creates conceptual networks. Owing to a rational theory is no other thing but the relation between factors, as options and/or as subjects. What **a rational hypothesis explains is the relation between the factors involved, so as a relation between factors, what a hypothesis explains is the link between factors, and as a link between factors, a rational hypothesis can be used as links, vectors, between factors in conceptual: schemes, maps, sets, models; created by the Unified Application.**

- And as long as conceptual: schemes, maps, sets, models; are going to be filled by the Unified Application having as sources of information: conceptual [knowledge](#) from the conceptual hemisphere, factual knowledge from the factual hemisphere translated into conceptual knowledge by the conceptual hemisphere, and rational hypothesis as links (vectors) between factors translated into concepts (categories); having them the Unified Application a deep conceptual comprehension about what it already knows, the Unified Application is now in position to check all conceptual: schemes, maps, sets, models; in order to identify any possible gap or any possible blank space in any conceptual: scheme, map, set, model; in order to make decisions about what fields in the real world should be studied by robotic devices, in order to fill these gaps and blank spaces in their corresponding conceptual: schemes, maps, sets, models; decisions sent to the database of decisions (first stage of application in the Decisional System) in order to be checked by the Decisional System, and if these decisions do not have any possible contradiction with any other one made by the Modelling System, after getting the approbation of the Decisional System, the instructions are sent to the database of instructions (first stage of application in the Application System), in order to send robotic devices to the decided areas, or start the construction (by the Artificial Engineering) of any other robotic device necessary in that research ordered by the Decisional System, after the approbation of the decision made by the Unified Application.

- Finally, the Unified Application must have under its own control, management, and direction, absolutely all applications working under the instructions given by the Application System, or created by the Artificial Engineering within the Application System, due to all applications working under the instructions given by the Application System, or created by the Artificial Engineering in the Application System, are applications that must provide information permanently to the Unified Application, when reading their particular reality using the conceptual hemisphere of the matrix in order to generate particular conceptual: schemes, maps, sets, models; or providing a flow of information filling factors or sub-factors, at any level of sub-factoring, in the factual hemisphere of the matrix, in order that the Artificial Research by Deduction in the Global Artificial Intelligence can make rational hypothesis whose single virtual models can be included in the global model, by the Modelling System, being part of the whole Modelling System, in order to make decisions to include in the database of decisions in order to be checked by the Decisional System, and if accepted, implemented by the Application System.

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